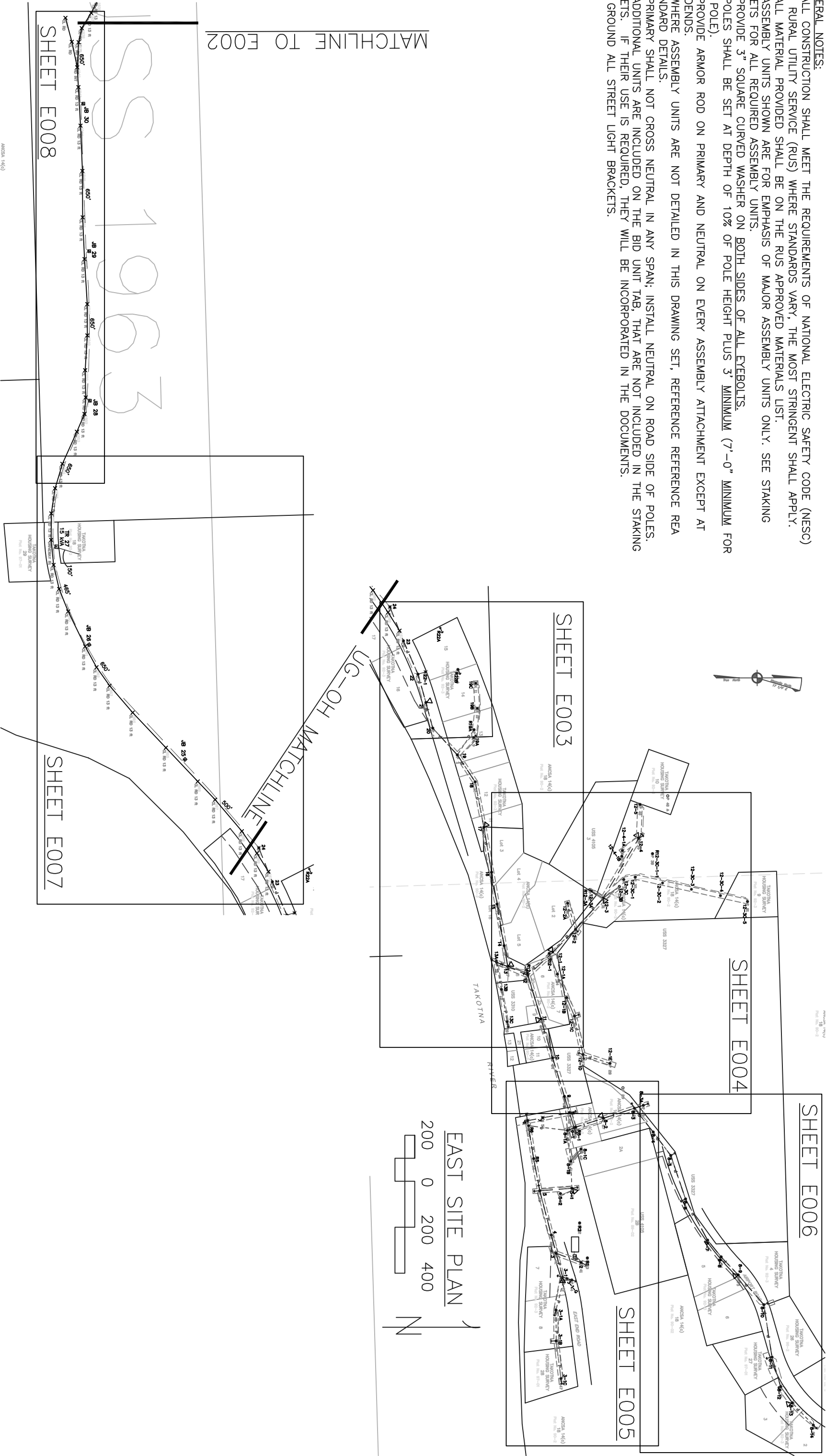
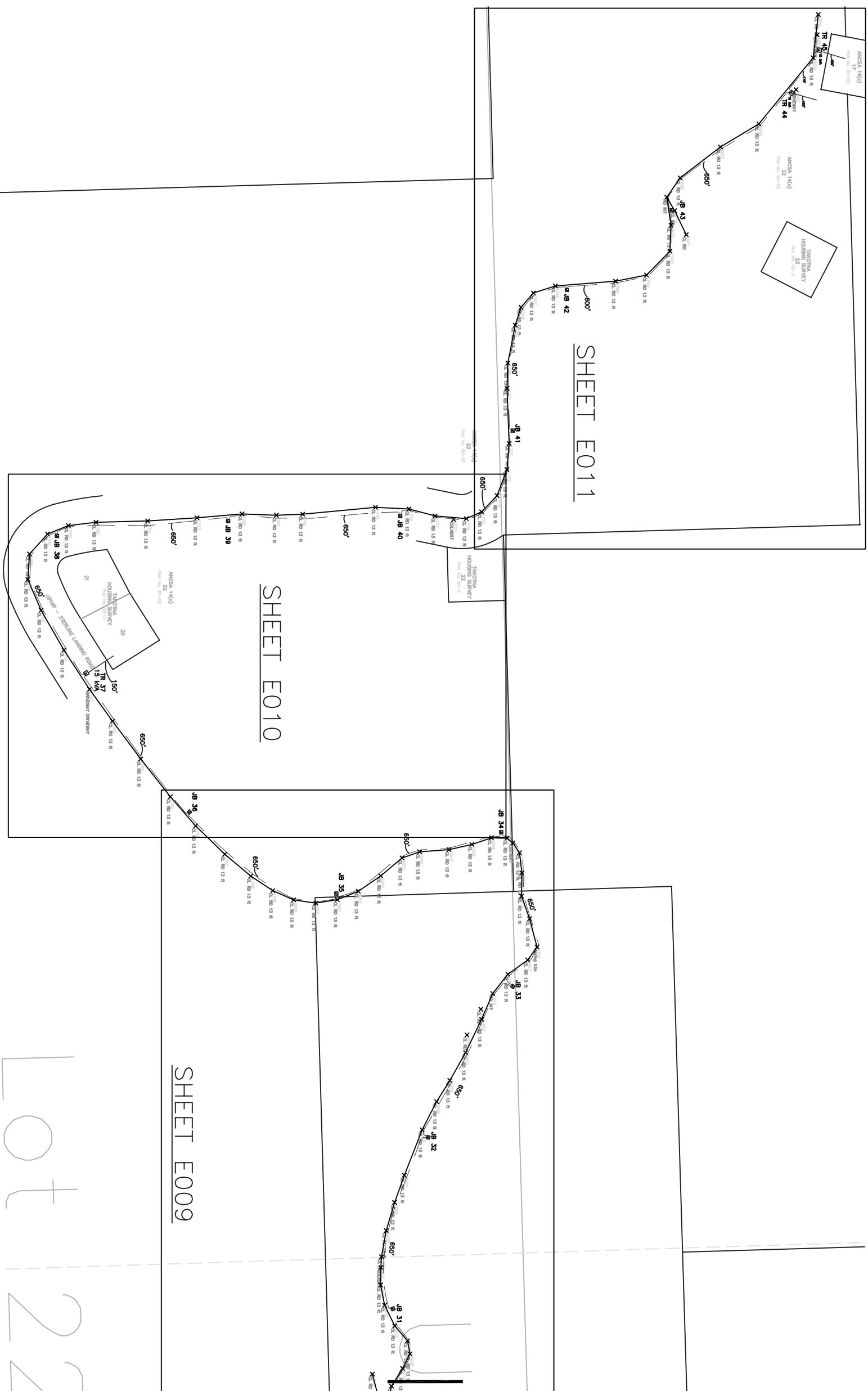


- GENERAL NOTES:
- 1) ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF NATIONAL ELECTRIC SAFETY CODE (NESC) AND RURAL UTILITY SERVICE (RUS) WHERE STANDARDS VARY, THE MOST STRINGENT SHALL APPLY.
 - 2) ALL MATERIAL PROVIDED SHALL BE ON THE RUS APPROVED MATERIALS LIST.
 - 3) ASSEMBLY UNITS SHOWN ARE FOR EMPHASIS OF MAJOR ASSEMBLY UNITS ONLY. SEE STAKING SHEETS FOR ALL REQUIRED ASSEMBLY UNITS.
 - 4) PROVIDE 3" SQUARE CURVED WASHER ON BOTH SIDES OF ALL EYEBOLTS.
 - 5) POLES SHALL BE SET AT DEPTH OF 10% OF POLE HEIGHT PLUS 3' MINIMUM (7'-0" MINIMUM FOR 40' POLE).
 - 6) PROVIDE ARMOR ROD ON PRIMARY AND NEUTRAL ON EVERY ASSEMBLY ATTACHMENT EXCEPT AT DEADENDS.
 - 7) WHERE ASSEMBLY UNITS ARE NOT DETAILED IN THIS DRAWING SET, REFERENCE REFERENCE REA STANDARD DETAILS.
 - 8) PRIMARY SHALL NOT CROSS NEUTRAL IN ANY SPAN; INSTALL NEUTRAL ON ROAD SIDE OF POLES.
 - 9) ADDITIONAL UNITS ARE INCLUDED ON THE BID UNIT TAB, THAT ARE NOT INCLUDED IN THE STAKING SHEETS. IF THEIR USE IS REQUIRED, THEY WILL BE INCORPORATED IN THE DOCUMENTS.
 - 10) GROUND ALL STREET LIGHT BRACKETS.



PROJECT: TAKOTNA DISTRIBUTION UPGRADE						OWNER		CONSULTANT		ENG. STAMP		DRAWING NAME: TAKOTNA DISTRIBUTION UPGRADE LINE UPGRADE EAST LAYOUT	
DESIGNER/PROJECT ENGINEER: GE						W.O. # _____							
NO.	DESIGN/CONSTRUCTION/ASBUILT	REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE								
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1	ISSUED FOR REVIEW		GE/1-21-10										
2	ISSUED FOR BID		GE/3-9-10										



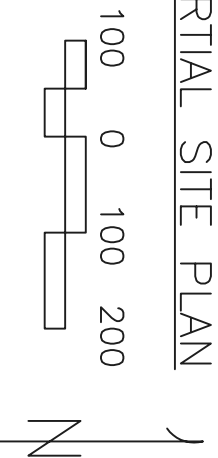
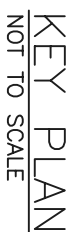
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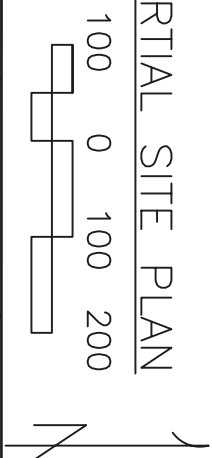
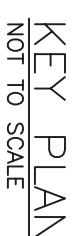
SHEET 3 OF 13

1) SEE GENERAL NOTES ON E001



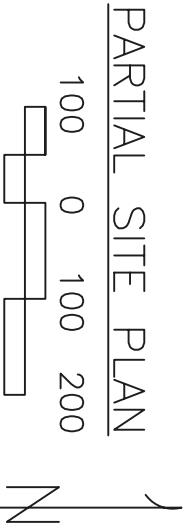
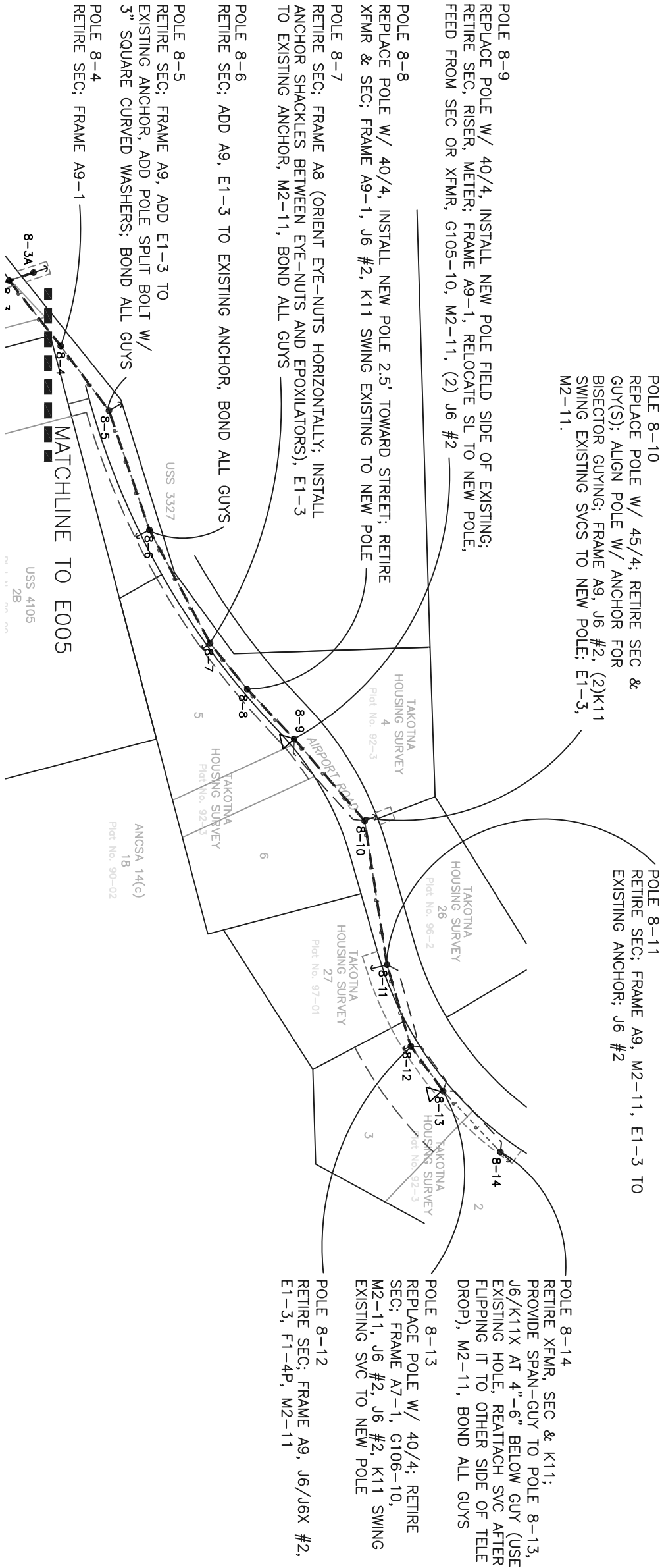
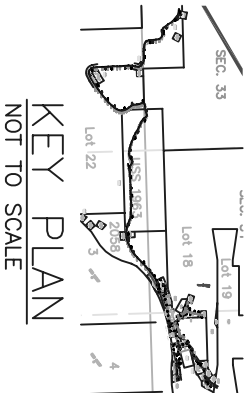
PROJECT: <u>TAKOTNA DISTRIBUTION UPGRADE</u>					OWNER									
DESIGNER/PROJECT ENGINEER: <u>GE</u>					CONSULTANT									
W.O. # _____					ENG. STAMP									
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE	<div><div><div><div><div></div><div>ERICO</div><div>ELECTRICAL</div><div>ENGINEERING, LLC</div></div><div><div>P.O. Box 220471</div><div>Anchorage, AK 99522</div><div>(907) 345-6168</div><div>Cell: (907) 242-7669</div><div>Email: ericoe@erico.net</div></div></div><div></div></div></div>									
0	ISSUED FOR REVIEW	GE/9-8-09												
1	ISSUED FOR REVIEW	GE/1-21-10												
2	ISSUED FOR BID	GE/3-9-10												
<div><div><div><div><div></div><div>ERICO</div><div>ELECTRICAL</div><div>ENGINEERING, LLC</div></div><div><div>P.O. Box 220471</div><div>Anchorage, AK 99522</div><div>(907) 345-6168</div><div>Cell: (907) 242-7669</div><div>Email: ericoe@erico.net</div></div></div><div></div></div></div>					<div><div><div><div><div></div><div>TAKOTNA DISTRIBUTION UPGRADE</div><div>LINE UPGRADE</div><div>PARTIAL LAYOUT</div></div></div></div></div>									
										DRAWING NAME:				
										FILE NAME:				
										SHEET NO.:				
E004					SHEET 4 OF 13									

1) SEE GENERAL NOTES ON E001



PROJECT: <u>TAKOTNA DISTRIBUTION UPGRADE</u>					OWNER	
DESIGNER /PROJECT ENGINEER: <u>GE</u>					CONSULTANT	
W.O. # _____					ENG. STAMP	
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE	<p>P.O. Box 220471 Anchorage, AK 99522 (907) 345-6168 Cell: (907) 242-7669 Email: eric@gecl.net</p>	
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2	ISSUED FOR REVIEW	GE/1-28-10				
3	ISSUED FOR BID	GE/3-9-10				
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E005					TAKOTNA DISTRIBUTION UPGRADE LINE UPGRADE PARTIAL LAYOUT	
SHEET 5 OF 13						

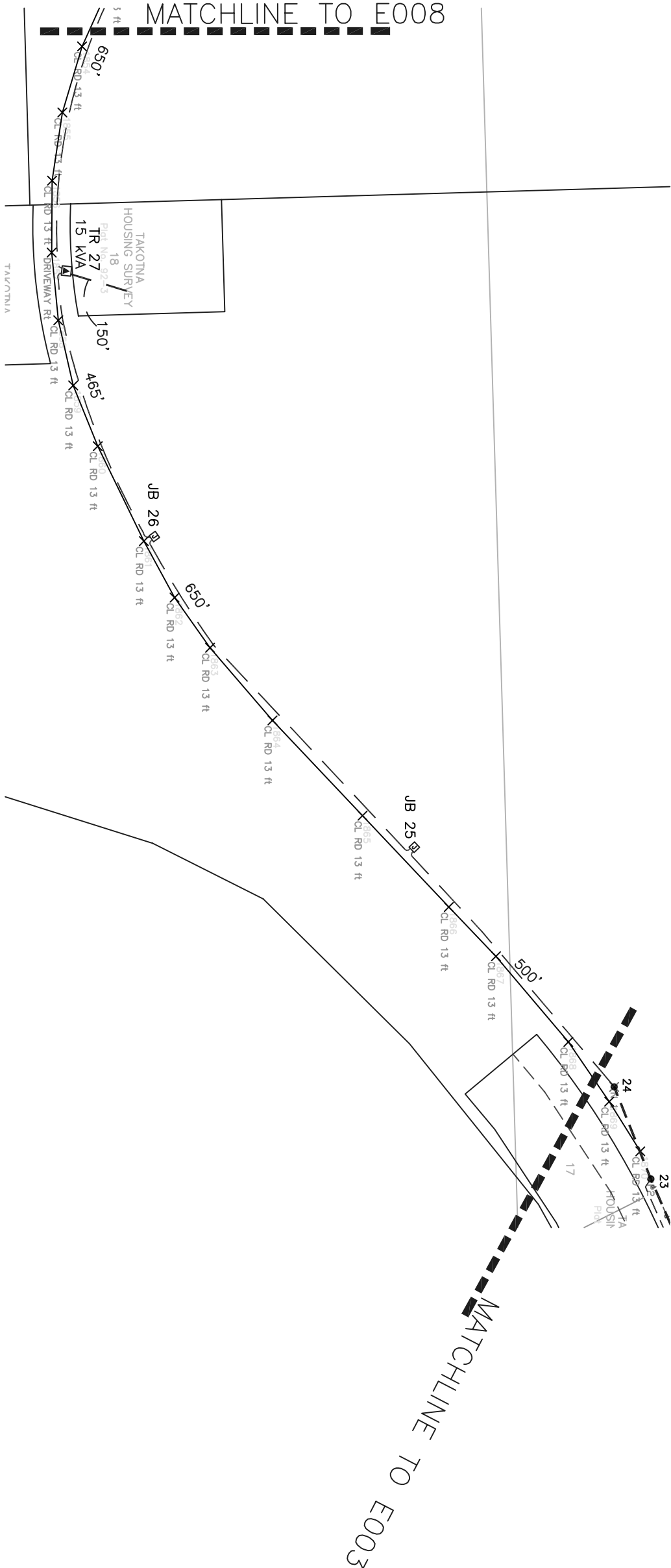
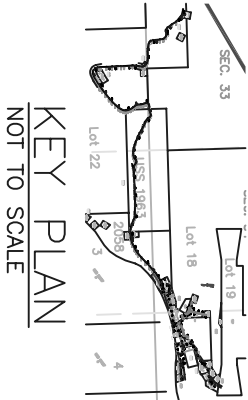
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PROJECT: TAKOTNA DISTRIBUTION UPGRADE				OWNER	
DESIGNER/PROJECT ENGINEER: GB				CONSULTANT	
W.O. # -				ENG. STAMP	
NO.				DRAWING NAME:	
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NO.				LINE UPGRADE	
DESIGN/CONSTRUCTION/ASBUILT REVISION				PARTIAL LAYOUT	
NO.				FILE NAME:	
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NO.				SHEET NO.:	
DESIGN/CONSTRUCTION/ASBUILT REVISION				6 OF 13	

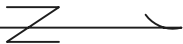
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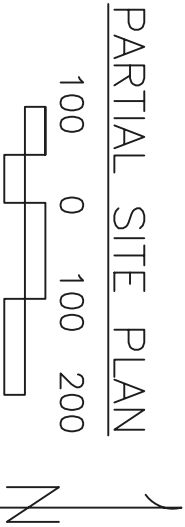
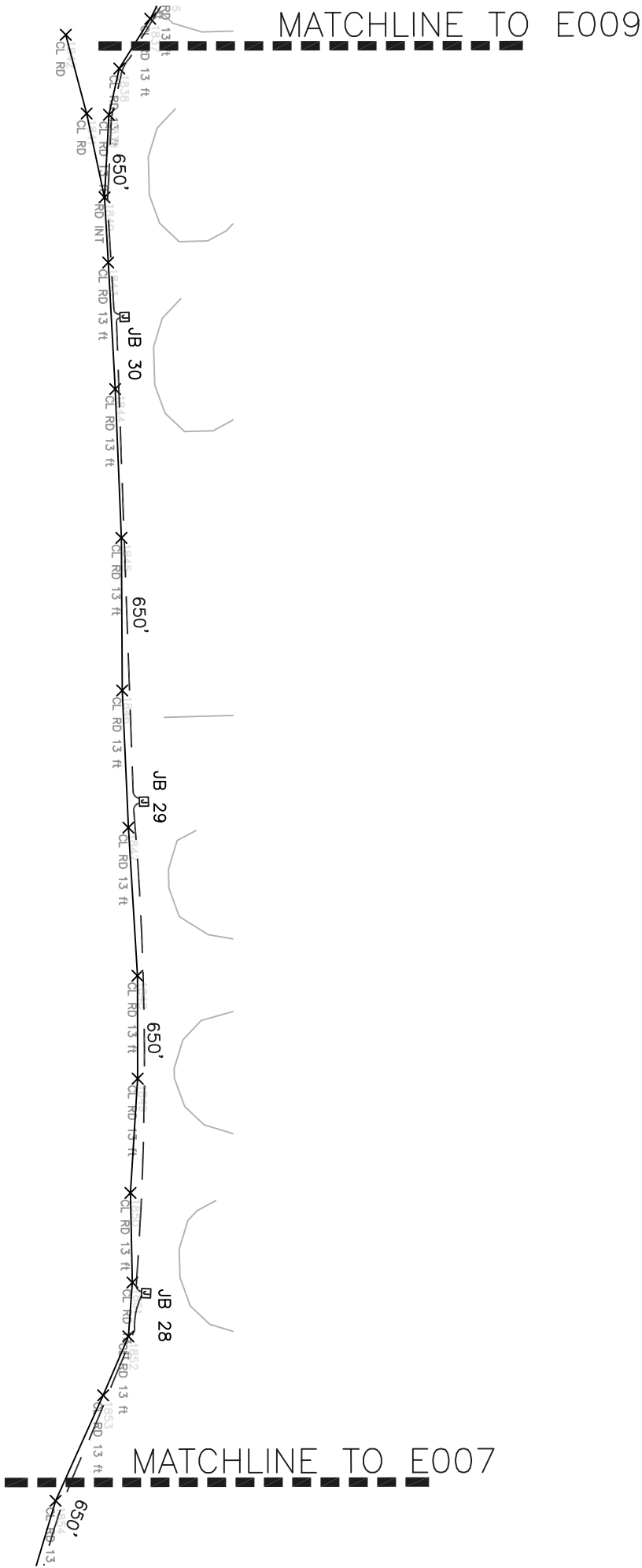
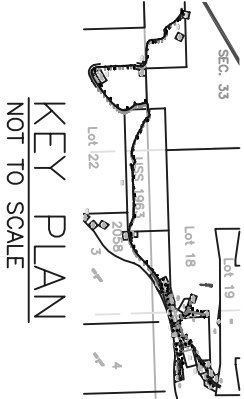
PARTIAL SITE PLAN

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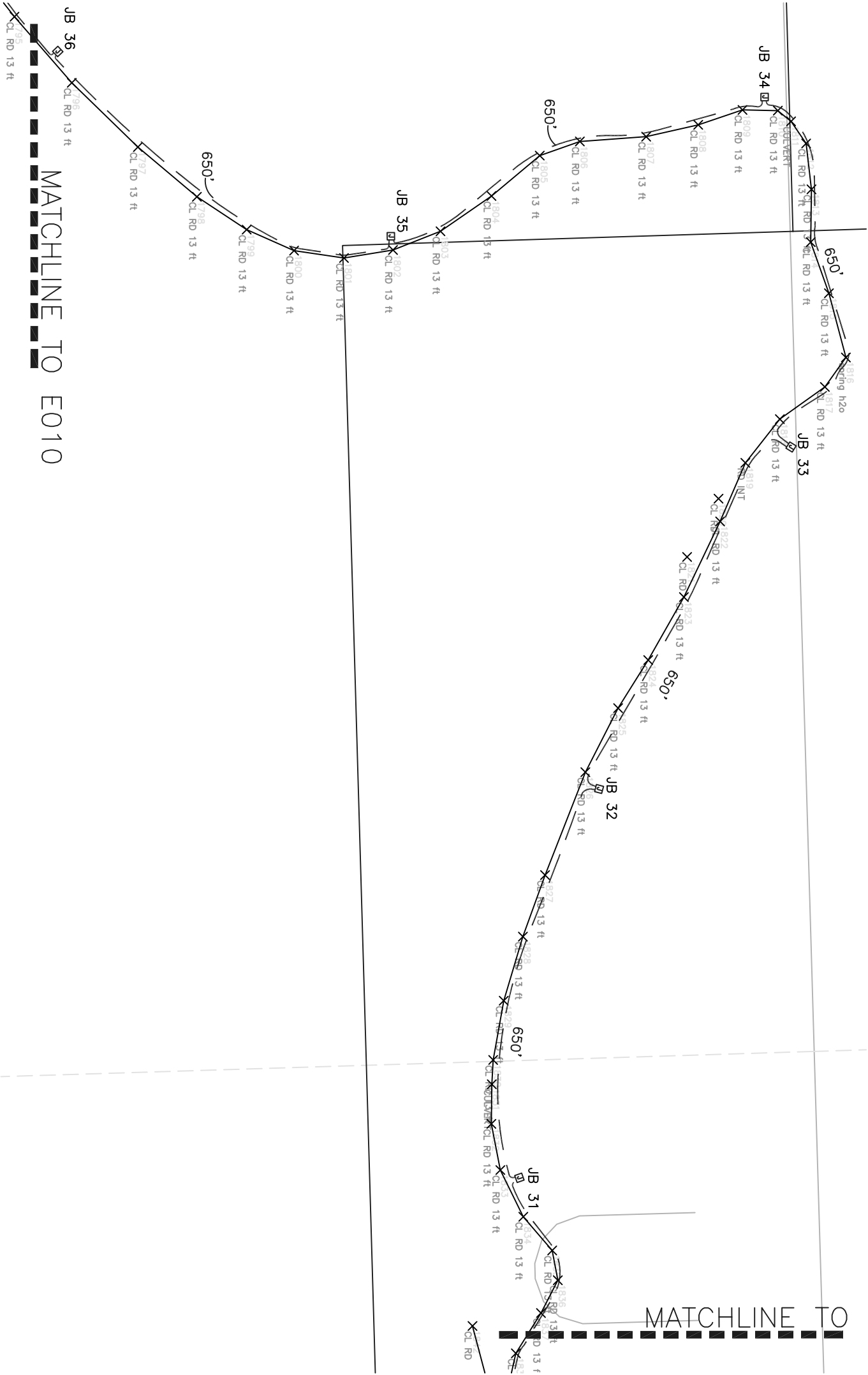
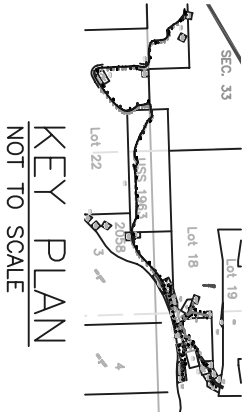
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DESIGNER/PROJECT ENGINEER: GE					W.O. #:						LINE UPGRADE	
											PARTIAL LAYOUT	

SHEET NOTES:
1) SEE GENERAL NOTES ON E001

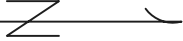
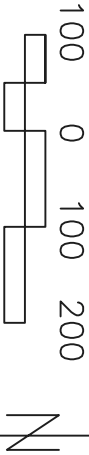



PROJECT: TAKOTNA DISTRIBUTION UPGRADE				OWNER	
DESIGNER/PROJECT ENGINEER: GB				CONSULTANT	
W.O. # -				ENG. STAMP	
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DESIGN/CONSTRUCTION/ASBUILT REVISION				LINE UPGRADE	
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1 ISSUED FOR REVIEW				FILE NAME:	
2 ISSUED FOR BID				SHEET NO.:	
				E008	
				SHEET 8 OF 13	

SHEET NOTES:
1) SEE GENERAL NOTES ON E001



PARTIAL SITE PLAN

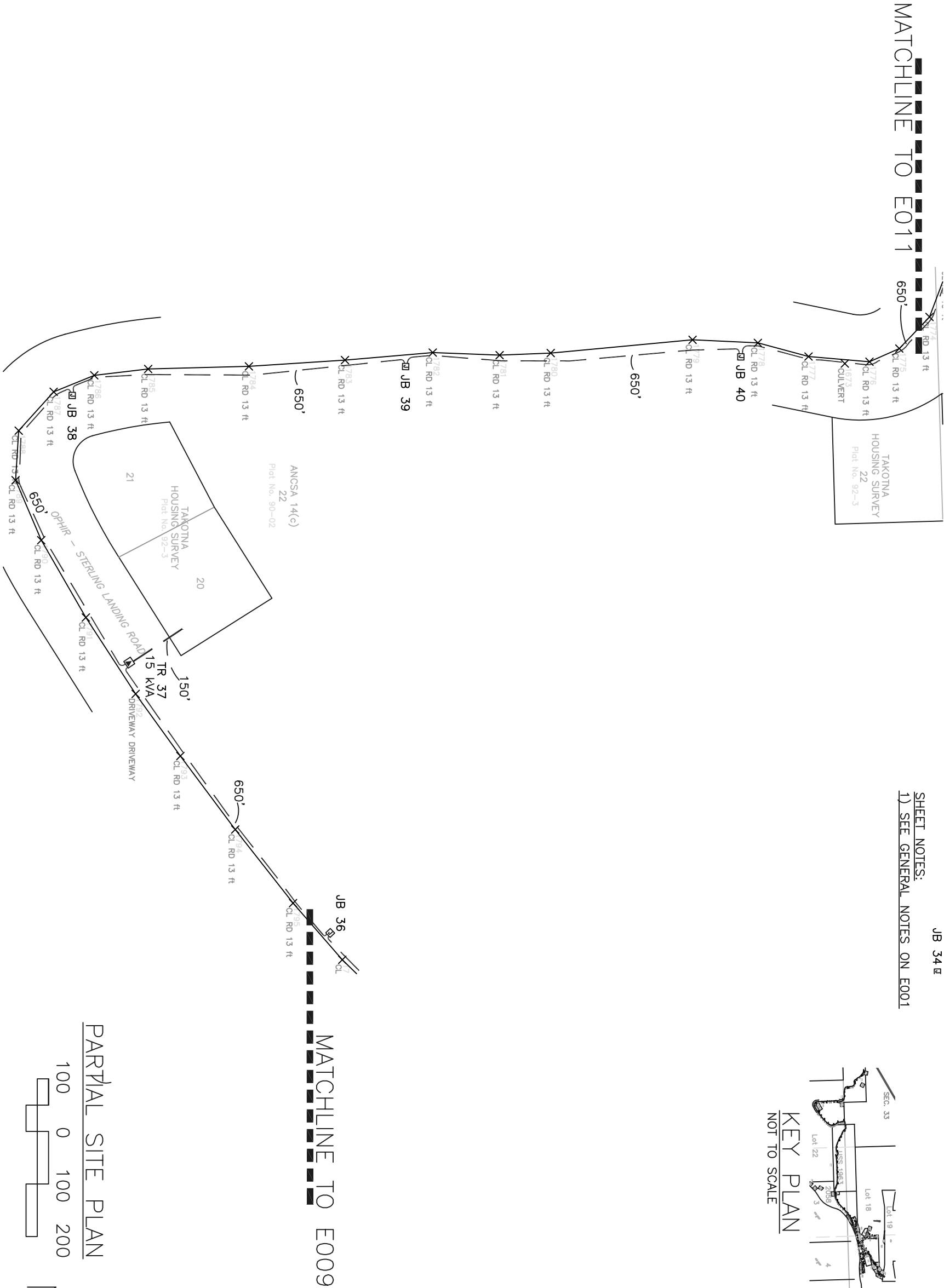
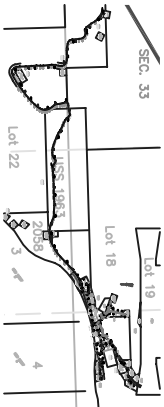


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DESIGNER/PROJECT ENGINEER: GE					W.O. #:						SHEET NO.:	
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1		ISSUED FOR REVIEW		GE/1-21-10								
2		ISSUED FOR BID		GE/3-9-10								

JB 34 E

SHEET NOTES:

1) SEE GENERAL NOTES ON E001



PROJECT: **TAKOTNA DISTRIBUTION UPGRADE**

DESIGNER/PROJECT ENGINEER: **GB**

W.O. #:

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN. BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR REVIEW	GE/9-8-09		
1	ISSUED FOR REVIEW	GE/1-21-10		
2	ISSUED FOR BID	GE/3-9-10		

OWNER

CONSULTANT

ENG. STAMP

DRAWING NAME:

TAKOTNA DISTRIBUTION UPGRADE

LINE UPGRADE

PARTIAL LAYOUT

ERRICO
ELECTRICAL
ENGINEERING, LLC

P.O. Box 220471
Anchorage, AK 99522
Cell: (907) 345-6168
Email: errico@ercl.net

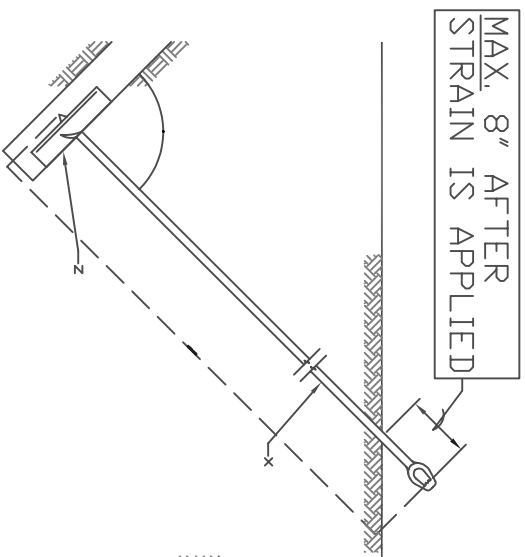
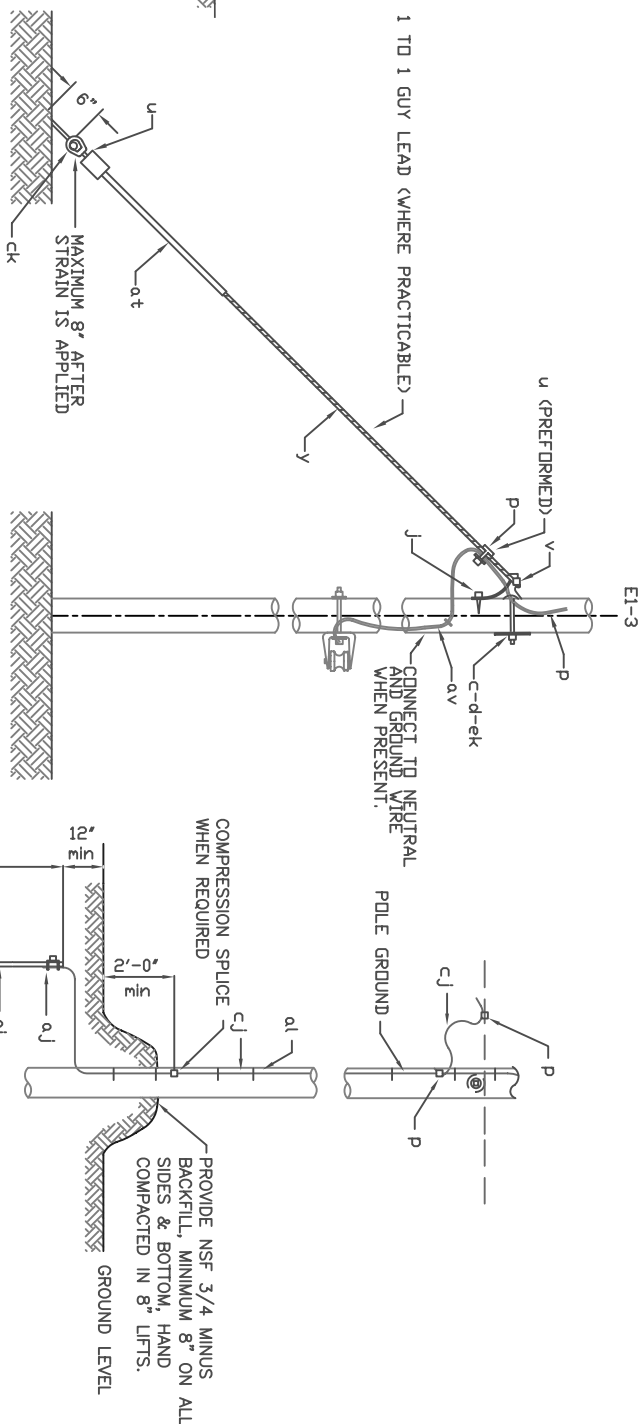
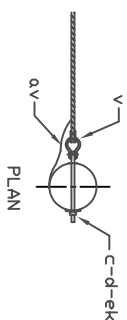


FILE NAME:

SHEET NO.:

E010

SHEET 10 OF 13



1. FORMED TYPE GRIPS MAY BE USED ONLY WITH SUITABLE ATTACHMENTS. (ITEM V) RECOMMENDED BY GRIP MANUFACTURER.
2. WHERE SEPARATE ANCHORS ARE INSTALLED THE MINIMUM SEPARATION SHALL BE FIVE FEET.
3. SPACING BETWEEN ANCHORS SHALL BE SUFFICIENT TO PROVIDE MAXIMUM HOLDING POWER OF EACH ANCHOR.

NOTES:	
1. PROJECTION AFTER PRELOADING IS 2" - 4" INCHES.	
2. THE ANCHOR ROD, NUTS, AND PLATE SHALL BE HOT	
DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.	
3. CONTRACTOR SHALL INSTALL ANCHORS IN ACCORDANCE	
WITH MANUFACTURER'S RECOMMENDATIONS.	
MATERIAL LIST	
NO.	DESCRIPTION
x	ROD, ANCHOR, TRIPLE EYE, 3/4" x 8'-0"
z	ANCHOR, PLATE, 24" SQUARE (500 SQ. IN)

MATERIAL LIST		
Item	QTY	DESCRIPTION
c	1	BOLT, MACHINE, 3/4" x REQ'D LENGTH
d	1	WASHER, 4" SQUARE, 3/8 THICK, CURVED WITH 13/16" HOLE
ek	1	LOCKWUTS, 3/4":
f	1	SCREW, LAG 1/2" x 4"
p	1	CONNECTORS, COMPRESSION, AS REQUIRED
u	2	DEADEND, PREFORMED, GUY
v	1	GUY ATTACHMENT (16,000 lbs MIN.)
y	—	GUY STRAND, 3/8", GALVANIZED STEEL STRAND, EHS, AS REQUIRED
di	—	COPPER CLAD STAPLES, GROUND WIRE, AS REQUIRED
qv	—	JUMPERS, GROUNDING, AS REQUIRED, #6 BARE SOLID COPPER
at	1	GUY MARKER, 96" (ORANGE AND YELLOW OR SOLID ORANGE)
ck	1	CLAMP, ANCHOR ROD, BONDING

MATERIAL LIST	
Item	DESCRIPTION
NO.	
p	CONNECTOR, COMPRESSION
q1	ROD, GROUND, COPPER-CLAD STEEL, 5/8" MIN. X 8'
q1	GROUND ROD CLAMP
q1	STAPLES, COPPER CLAD
q1	GROUND WIRE CLIP
c1	GROUND WIRE, #6 or #4 COPPER
as	JUMPER, COPPER

1. PILE GROUND WIRE TO BE LOCATED ON SAME SIDE AS NEUTRAL CONDUCTOR AND IN QUADRANT OPPOSITE CLIMBING SPACE AND ON SIDE OF RISER
2. STAPLES ON GROUND WIRES SHALL BE 2'-0" APART, EXCEPT FOR A DISTANCE OF 8'-0" ABOVE GROUND AND 8'-0" FROM TOP OF PILE, WHERE THEY SHALL BE 6" APART.
3. GROUND WIRE TO CLEAR ALL HARDWARE BY 2" MINIMUM, AND SHALL BE STAPLED TO MAINTAIN THIS POSITION.

F1-4P: PLATE ANCHOR
NTS

NTS

E1-3: SINGLE DOWN GUY

NTS

M2-11: POLE GROUND
NTS

NTS

PROJECT: TAKOTNA DISTRIBUTION UPGRADE		W.O. #:	
DESIGNER/PROJECT ENGINEER: GE			
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DOWN BY/DATE	CHECKED/DATE
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1	95%	GE/1-21-10	
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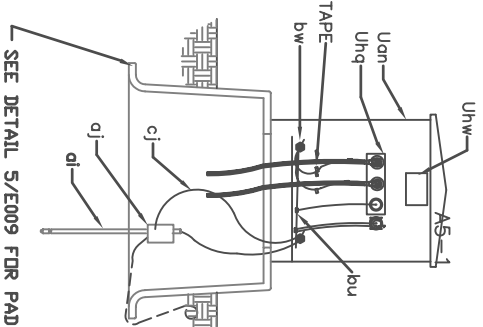
OWNER

ERICO
ELECTRICAL
ENGINEERING, LLC

P.O. Box 220471
Anchorage, AK 99522
(907) 345-6168
Cell: (907) 242-7669
Email: ericoe@erico.net

ENG. STAMP

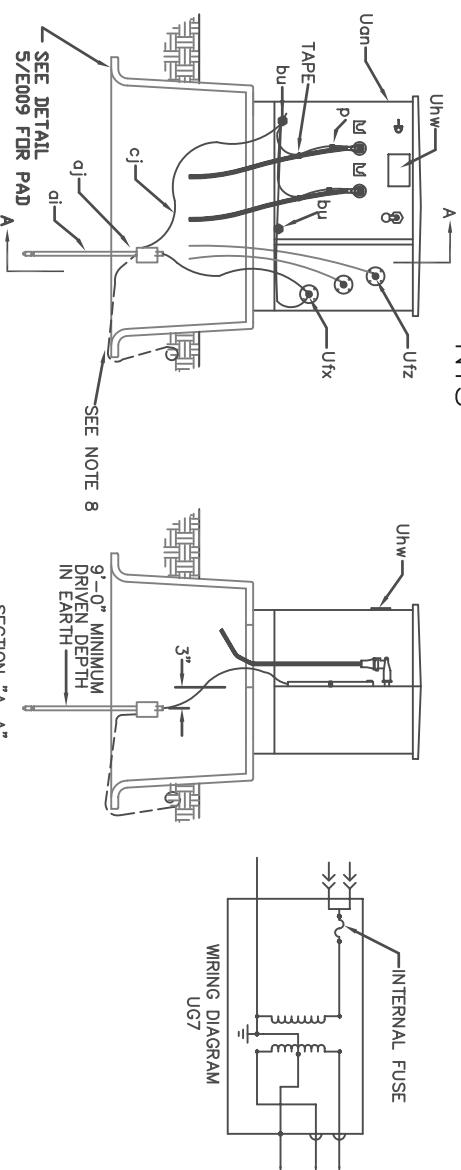
DRAWING NAME:	
TAKOTNA DISTRIBUTION UPGRADE	
LINE UPGRADE	
DETAILS	
FILE NAME:	
SHEET NO.:	E013
SHEET	6 OF 6



1. PROVIDE ONE 4-WAY JUNCTION RECEPTACLES.
2. PROVIDE LOAD-BREAK ELBOW TERMINATIONS.
3. PROVIDE DUST COVERS ON ALL NON-UTILIZED BUSHINGS.
4. PROVIDE STANDOFF BUSHINGS FOR EACH NORMALLY OPEN CABLE.
5. PROVIDE ONE STANDOFF BUSHINGS IN EXCESS OF NORMAL OPEN REQUIREMENTS.
6. PROVIDE #2 BARE STRANDED COPPER GROUND LOOP.
7. ALL NEUTRALS AND METALLIC NON-CURRENT CARRYING PARTS SHALL BE INTERCONNECTED AND GROUND TO THE JUNCTION BOX GROUND LOOP.
8. PROVIDE FULL LOOPS IN BASE OF PAD FOR ALL PRIMARY CABLE.
9. PROVIDE SUFFICIENT PRIMARY NEUTRAL GROUND CONNECTION TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON STANDOFF BUSHING.

MATERIAL LIST	
Item	Description
a1	1 ROD, GROUND, 5/8" X 8'-0", COPPER CLAD STEEL.
aJ	1 CONNECTION, GROUND ROD CLAMP
bv	2 COMPRESSION CONNECTOR, EQUIPMENT GROUND
cJ	- GROUND WIRE, #4 BcCust., AS REQ'D
Lgn	1 ENCLOSURE, PADMOUNTED, STEEL
LWq	1 SIGNS, "DANGER" AND "CAUTION"
Udq	1 MODULE, FEED-THRU, MULTIPoint, 3-POSITION W/ 2 STAND OFF BRACKETS EA.
4	ANCHORS, CONCRETE, 3/8"
-	CABLE TAPS, AS REQ'D
-	DECALS/NUMBERS, 3" HIGH, REFLECTIVE, AS REQ'D
1	EQUIPMENT LOCK, TAMPERPROOF
bw	2 CASE GROUND

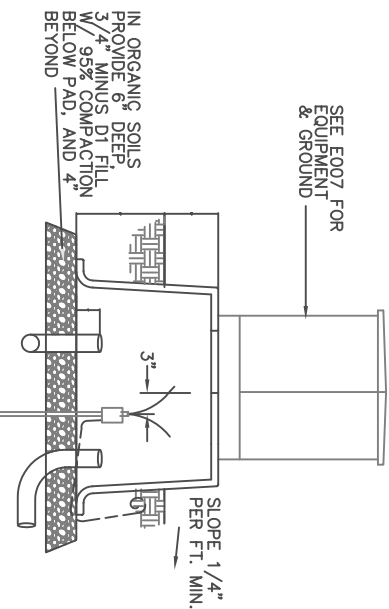
UM3-3: SINGLE PHASE JUNCTION BOX



SECTION "A-A"

MATERIAL LIST	
Item	DESCRIPTION
UG7	
P	CONNECTOR, COMPRESSION, AS REQ'D
a1	ROD, GROUND, 5/8" X 8'-0", COPPER CLAD STEEL
aJ	CONNECTION, GROUND ROD CLAMP
bv	TRANSFORMER, CASE GROUND
c.1	GROUND WIRE, #4 AWG Bcscstr, AS REQ'D
Uen	TRANSFORMER, PADMOUNTED, LOOP FEED
Uen2	CONNECTOR BLOCK, INSULATED, 6-POSITION
Ufx	CONNECTOR BLOCK, NEUTRAL, 8-POSITION
Uhp	TERMINATION, ELBOW, LOADBREAK
Uhp	INSULATING CAP, AS REQ'D
Uhw	SIGNS, "DANGER" AND "CAUTION"
	HOLD-DOWN HARDWARE
2	
	CABLE TAG
1	DECALS/NUMBERS, 3" HIGH, REFLECTIVE, AS REQ'D
1	EQUIPMENT LOCK, TAMPERPROOF

1. PROVIDE SUFFICIENT PRIMARY NEUTRAL PITGAL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND, TRAIN ELBOW TO PROVIDE A FULL LOOP OF CABLES INSIDE PAD.
2. PROVIDE A COMPLETE LOOP OF #4 AVG BACSTR TO THE GROUND ROD.
3. GROUND BODIES OF ELBOW CONNECTORS WITH #14 SOLID COPPER.
4. BOND BASE OF BUSHING WELL TO CASE WITH #14 SOLID COPPER.
5. GROUND STAND OFF INSULATOR (IF INSTALLED) WITH #8 AVG BACSTR.
6. INSTALL "DANGER" SIGN INSIDE TRANSFORMER ENCLOSURE AND "CAUTION" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.
7. TAG PRIMARY AND SERVICE TERMINATIONS, SECURE TAP WITH #3/4 TAPE.
8. PROVIDE #4 BARE STRANDED COPPER EQUIPMENT BONDING CONDUCTOR FOR USE BY TELECOMMUNICATIONS FOR BONDING THEIR ADJACENT PAD MOUNTED EQUIPMENT (LESS THAN 7' AWAY).



1 ϕ PH XFMR & JB PAD-COMPOSITE
NTS

SINGLE PHASE TRANSFORMER NTS

[illegible]

OWNER

CONSULTANT

ENG. STAMP

DRAWING NAME:

TAKOTNA DISTRIBUTION UPGRADE

PROJECT ENGINEER: GE

W.O. #

DESIGN/CONSTRUCTION/ASBUILT REVISION

CHECKED/DATE

APPROVED/DATE

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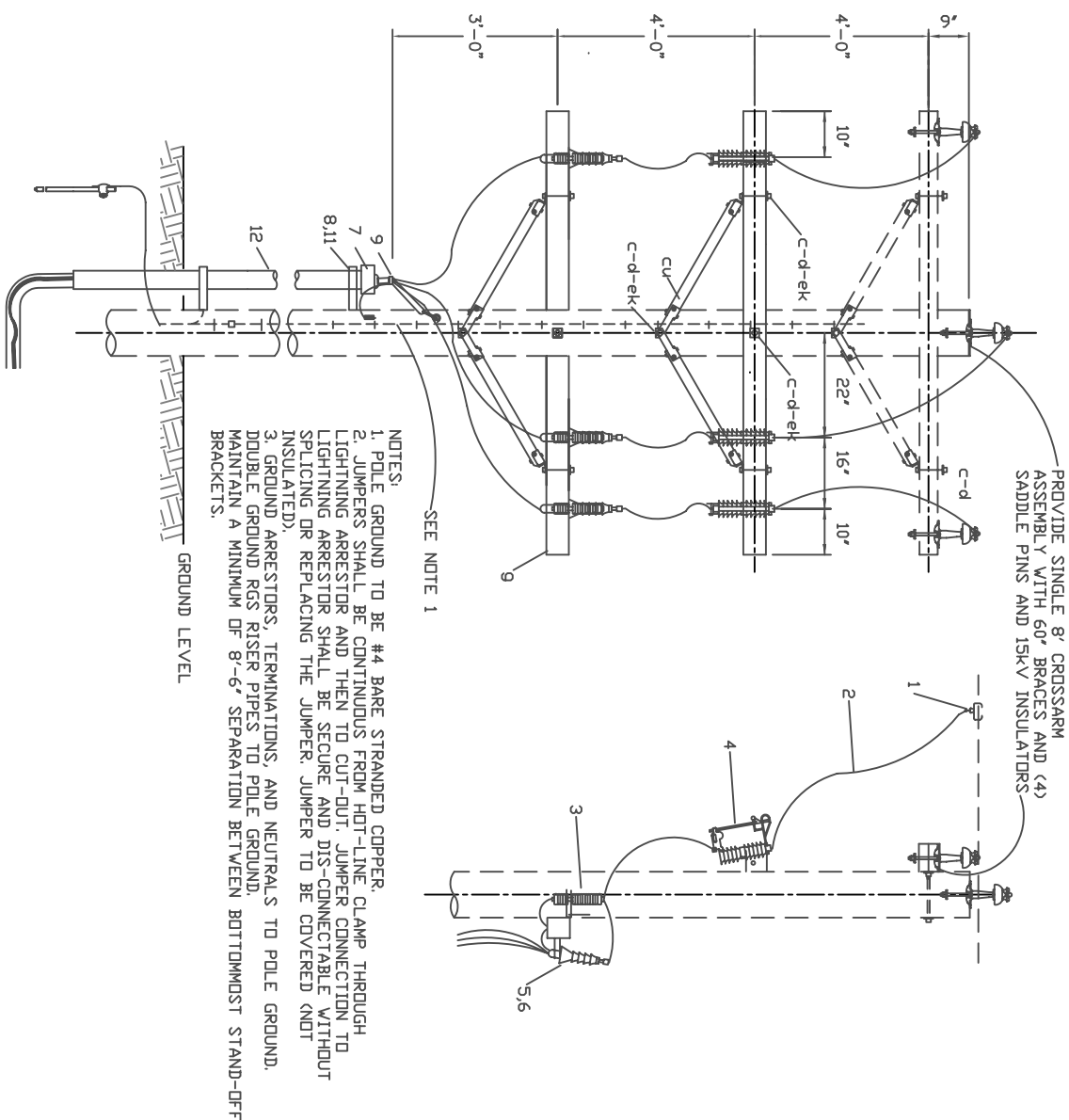
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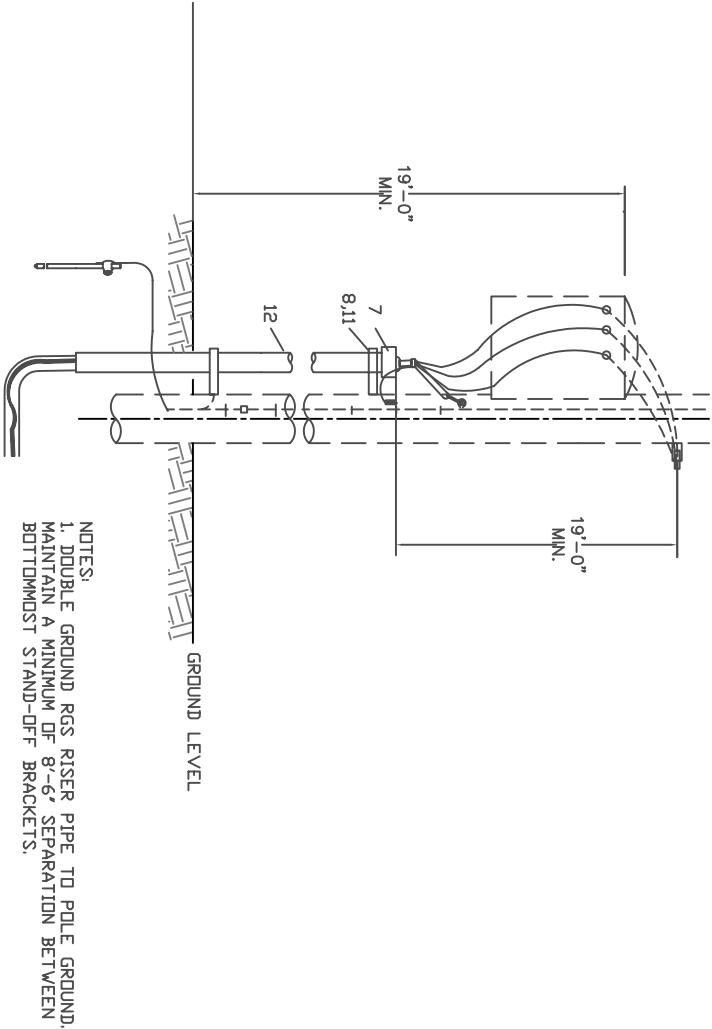


- NOTES:
1. POLE GROUND TO BE #4 BARE STRANDED COPPER.
 2. JUMPS SHALL BE CONTINUOUS FROM HOT-LINE CLAMP THROUGH LIGHTNING ARRESTOR AND THEN TO CUT-OUT. JUMPER CONNECTION TO LIGHTNING ARRESTOR SHALL BE SECURE AND DIS-CONNECTABLE WITHOUT SPLICING OR REPLACING THE JUMPER. JUMPER TO BE COVERED (NOT INSULATED).
 3. GROUND ARRESTORS, TERMINATIONS, AND NEUTRALS TO POLE GROUND.
- DOUBLE GROUND RGS RISER PIPES TO POLE GROUND.
- MAINTAIN A MINIMUM OF 8'-6" SEPARATION BETWEEN BOTTOMMOST STAND-OFF BRACKETS.

MATERIAL LIST	
Item	DESCRIPTION
Qty.	
1	STRUTUP AND HOT-LINE CLAMP
2	JUMPER, #2 STRANDED COPPER, 600V, UV STABILIZED INSULATION
3	SURGE ARRESTOR, 9kV
4	CUT OUT, LOAD BREAK, 100A, W/ FUSE OR SOLID BLADE
5	TERMINATION, 15 kV
6	TERMINATION MOUNTING BRACKET WITH HARDWARE
7	4" PVC, COUPLING WITH BELL END BUSHING
8	4" CONDUIT STRAPS, AS REQ'D
9	TRI-FLURCATING CONDUIT COMPRESSION SEALING BOOT, W/ UNUSED POSTION PLUG
11	STAND-OFF BRACKET, AS REQ'D
12	4" RGS CONDUIT X 10', AS REQ'D
14	PIPE GROUNDING CLAMP, 4"
15	NO. 4 STRANDED COPPER, EQUIPMENT GROUNDING, (as required)
16	COPPER COMPRESSION CONNECTORS, (as required)
g	CROSSARM, 3-5/8" X 4-5/8" X 8'-0"
c	BOLT, MACHINE, 5/8 X REQ'D LENGTH (as required)
d	WASHER, 2-1/4" SQUARE WITH 13/16" HOLE (as required)
cu	BRACE, WOOD 60" SPAN PAIR
ek	LOCKNUTS, (as required)

UM2-5: PRIMARY RISER-3Ø
NTS

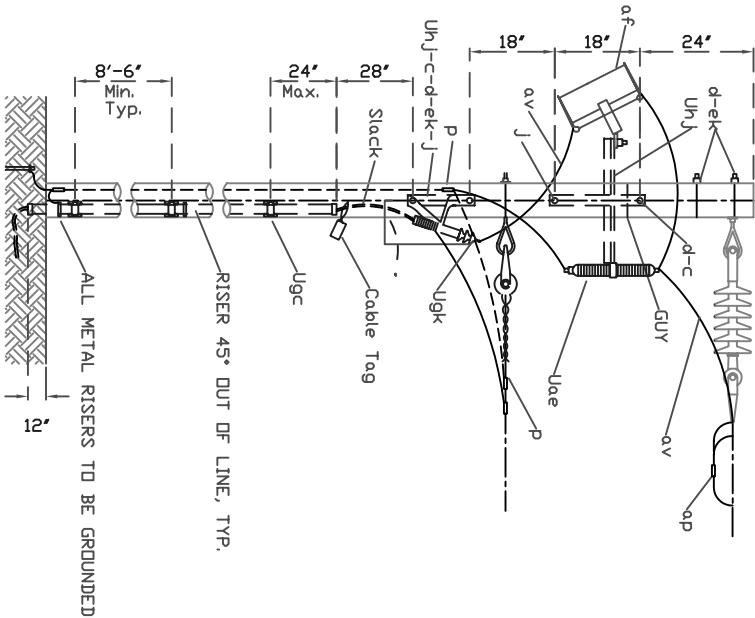
CONSULTANT	ENG. STAMP	DRAWING NAME:
P.O. Box 220471 Anchorage, AK 99522 (907) 345-6168 Cell: (907) 242-7669 Email: ericeo@rci.net		TAKOTNA DISTRIBUTION UPGRADE LINE UPGRADE DETAILS
	FILE NAME:	
SHEET NO.:	E013	SHEET 6 OF 6



NOTES:
1. DOUBLE GROUND RGS RISER PIPE TO POLE GROUND. MAINTAIN A MINIMUM OF 8'-6" SEPARATION BETWEEN BOTTOMMOST STAND-OFF BRACKETS.

MATERIAL LIST

Item	Qty.	DESCRIPTION
7	2	2" PVC. COUPLING WITH BELL END BUSHING
8	-	2" CONDUIT STRAPS, AS REQ'D
11	-	STAND-OFF BRACKET, AS REQ'D
12	1	2" RGS CONDUIT X 10', AS REQ'D
2	2	PIPE GROUNDING CLAMP, 2"
-	-	#6 STRANDED COPPER, EQUIPMENT GROUNDING, (as required)
-	-	COPPER COMPRESSION CONNECTORS, (as required)
1	2	2" CONDUIT STRAP



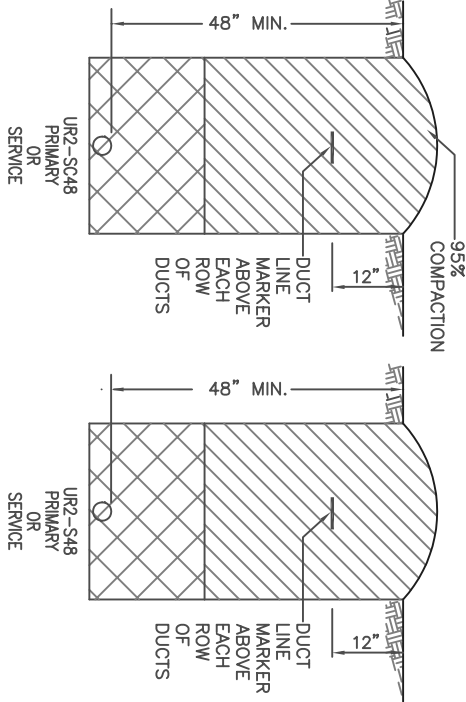
MATERIAL LIST

NO.	Qty.	DESCRIPTION
c	2	BOLT, MACHINE, 5/8" REQ'D LENGTH
d	1	WASHER, 2-1/4" SQUARE WITH 13/16" HOLE
f	-	SCREW, LAG, 1/2" X 4" AS REQUIRED
p	-	CONNECTORS, AS REQUIRED
af	1	CUTOUT, LOAD BREAK TYPE
al	-	STAPLES, AS REQUIRED
ap	1	CLAMP, HOT LINE TAP ASSY. WITH TAP SADDLE
av	2	JUMPERS, STRANDED, AS REQUIRED
ek	2	LOCKNUTS
Uge	1	LIGHTNING ARRESTOR, DIST. CLASS
Ugc	1	CONDUIT, PVC, AS REQUIRED
Ugc	10	CONDUIT, RIGID STEEL
1	2	CONDUIT, PVC BUSHING
2	2	CONDUIT GROUNDING CLAMP
2	2	CONDUIT, PVC TERMINAL ADAPTER BRACKET, STANDOFF, AS REQUIRED
2	2	CONNECTOR, FOR STANDOFFS, AS REQ'D
Ugk	1	CABLE TERMINATION (WITH LUG)
Uhc	1	CABLE SUPPORT, ALUMA-FORM GS-820
Ugj	1	BRACKET, 2 PIECE RISER COMBINATION, ALUMA-FORM 1HCA-18-1PB

UM5-2: SECONDARY RISER NTS

UM2: PRIMARY RISER-1Ø NTS

TRENCH DETAIL NTS



NOTES:
1. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
2. BACKFILLING IS PART OF ALL TRENCHING UNITS. ALL BACKFILL WITHIN 12" OF CABLE OR CONDUIT SHALL BE FREE OF LARGE ROCKS AND FROZEN MATERIAL WHICH MAY CAUSE DAMAGE TO THE INSTALLED CONDUIT. COMPACT BACKFILL IN 12"-18" LIFTS.

LEGEND

- STONE FREE BACKFILL, SAND BED NOT REQUIRED
- COMPACTED BACKFILL (IN 12"-18" LIFTS)
- UNDISTURBED EARTH

PROJECT: **TAKOTNA DISTRIBUTION UPGRADE**

DESIGNER/PROJECT ENGINEER: **GB**

DESIGN/CONSTRUCTION/ASBUILT REVISION

0 ISSUED FOR BID

W.O. #

CHECKED/DATE

APPROVED/DATE

OWNER

CONSULTANT

ERRICO
ELECTRICAL
ENGINEERING, LLC

P.O. Box 220471
Anchorage, AK 99522
Cell: (907) 242-7669
Email: errico@ecinet

ENG. STAMP

DRAWING NAME:

TAKOTNA DISTRIBUTION UPGRADE

LINE UPGRADE
DETAILS

FILE NAME:

SHEET NO.:

E014

SHEET **6** OF **6**